

(citation 3)

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Title of the Invention: Aqueous Pigment Ink for Inkjet and Inkjet Recording Method

(Claim 1)

An aqueous pigment ink for inkjet comprising at least water, a pigment and a latex, characterized in that a total concentration of alkali metal ions in the aqueous pigment ink is from 100 ppm to 3000 ppm, and a total concentration of multivalent metal ions is 20 ppm or less.

(Abridgement of the description)

The claimed invention relates to an inkjet pigment ink and an inkjet recording method, in particular, an aqueous pigment ink for inkjet recording and an inkjet recording method using the pigment ink. The claimed invention is capable of forming a water-fast and scratch-resistant image on a medium, and is advantageous in storage stability, clogging resistance, and jetting stability.

(paragraph 0013)

[0013]

[Means for Solving the Problems] The above objects are attained by providing:

- (1) An aqueous pigment ink for inkjet comprising at least water, a pigment and a latex, characterized in that a total concentration of alkali metal ions in the aqueous pigment ink is from 100 ppm to 3000 ppm, and a total concentration of multivalent metal ions is 20 ppm or less.
- (2) An aqueous pigment ink for inkjet as in (1), characterized in that the amount of solid of the latex is from 0.3 % by weight to 5 % by weight.
- (3) An aqueous pigment ink for inkjet as in (1) or (2), characterized in that the latex is a soap-free latex.
- (4) An aqueous pigment ink for inkjet as in any of (1) to (3), characterized in that, among the alkali metal ions contained in the ink, the concentration of sodium ions is highest.
- (5) An inkjet recording method characterized by recording on a white medium having a 60 degree gloss of 30 % or more with the aqueous pigment ink for inkjet in any of (1) to (4).